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Ads 1

Dirk Rose, Katrin Bidmon, Thomas Ertl

October 2004 VIS '04: Proceedings of the conference on Visualization '04

Publisher: IEEE Computer Society

Full text available: [pdf\(463.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 46, Citation Count: 0

Virtual prototyping is increasingly replacing real mock-ups and experiments in industrial product development. Part of this process is the simulation of structural and functional properties, which is in many cases based on Finite Element Analysis (FEA). ...

Keywords: finite element modeling, interaction, manipulators, autostereoscopy

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2 [Recreational computer graphics](#)

Andrew Glassner

July 2006 SIGGRAPH '06: ACM SIGGRAPH 2006 Courses

Publisher: ACM

Full text available: [pdf\(13.82 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 322, Citation Count: 0

Computer graphics isn't just a bunch of algorithms and programs: it's a gymnasium for the visual imagination, and a tool for investigating the world around us. Graphics can help us understand nature, invent new kinds of patterns and shapes, build up ...

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3 [Video-based rendering](#)

Marcus Magnor, Marc Pollefeys, German Cheung, Wojciech Matusik, Christian Theobalt


July 2005 SIGGRAPH '05: ACM SIGGRAPH 2005 Courses


Publisher: ACM

Full text available: [pdf\(5.15 MB\)](#) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 329, Citation Count: 0

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4 [Understanding performance in coliseum, an immersive videoconferencing system](#)

-  [H. Harlyn Baker, Nina Bhatti, Donald Tanguay, Irwin Sobel, Dan Gelb, Michael E. Goss, W. Bruce Culbertson, Thomas Malzbender](#)
May 2005 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 1 Issue 2
Publisher: ACM


Full text available:  [pdf\(11.79 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 96, Citation Count: 1

Coliseum is a multiuser immersive remote teleconferencing system designed to provide collaborative workers the experience of face-to-face meetings from their desktops. Five cameras are attached to each PC display and directed at the participant. From ...

Keyw ords: 3D virtual environments, Telepresence, network applications, performance measurement, streaming media, videoconferencing, view synthesis

5 [Automatic trace analysis for logic of constraints](#)

-  [Xi Chen, Harry Hsieh, Felice Balarin, Yosinori Watanabe](#)
June 2003 DAC '03: Proceedings of the 40th conference on Design automation
Publisher: ACM


Full text available:  [pdf\(187.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 34, Citation Count: 3

Verification of system designs continues to be a major challenge today. Simulation remains the primary tool for making sure that implementations perform as they should. We present algorithms to automatically generate trace checkers from formulas written ...

Keyw ords: logic of constraints, performance constraint, simulation checker, trace analysis

6 [Surf's up: the making of an animated documentary](#)

-  [Rob Bredow, David Schaub, Daniel Kramer, Matthew Hausman, Danny Dimian, R. Stirling Duguid](#)
August 2007 SIGGRAPH '07: ACM SIGGRAPH 2007 courses
Publisher: ACM


Full text available:  [pdf\(152.86 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 671, Citation Count: 0

The CG animated documentary *Surf's Up* called for unique production techniques to be leveraged throughout the creation of the film. This half day course presents an in-depth look at several of the key aspects of the production: • Integration ...

7 [At the Forge](#)

- [Reuven M. Lerner](#)
September 1999 Linux Journal, Volume 1999 Issue 65es
Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(21.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation Count: 0

Dynamic Graphics: Generating graphics, charts and graphs for your web site is easy

following Mr. Lerner's instructions.

8 [Setting up X11: A no-tears guide to XFree86 configuration.](#)

Greg Lehey

July 1995 Linux Journal, Volume 1995 Issue 15es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(24.42 KB\)](#) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 6, Citation Count: 0

9 [An efficient intra deinterlacing algorithm with gradient detection and window matching](#)



Wonki Kim, Soonjong Jin, Jechang Jeong

September 2007 MULTIMEDIA '07: Proceedings of the 15th international conference on Multimedia

Publisher: ACM

Full text available:  [pdf\(811.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 68, Citation Count: 0

This paper presents a novel intra deinterlacing algorithm (NID) based on content adaptive interpolation. The NID consists of three steps: pre-processing, content classification, and content adaptive interpolation. There are also three main interpolation ...

Keywords: deinterlacing, gradient detection, interpolation, window matching

10 [Dynamic program insertion in high quality video over IP](#)



Taehyun Kim, Jack Brassil

June 2003 NOSSDAV '03: Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video

Publisher: ACM

Full text available:  [pdf\(269.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 91, Citation Count: 0

We introduce an overlay network architecture and signaling mechanism that permit program insertions in live, high quality video streams transmitted over IP networks. We describe the implementation of an application proxy that dynamically inserts pre-recorded ...

Keywords: content delivery networks (CDNs), digital television (DTV), multimedia signaling, program and system information protocol (PSIP), program cues, real-time transport protocol (RTP), video streaming

11 [A survey of research and practices of Network-on-chip](#)



Tobias Bjerregaard, Shankar Mahadevan

June 2006 ACM Computing Surveys (CSUR), Volume 38 Issue 1

Publisher: ACM

Full text available:  [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 121, Downloads (12 Months): 1911, Citation Count: 4

The scaling of microchip technologies has enabled large scale systems-on-chip (SoC). Network-on-chip (NoC) research addresses global communication in SoC, involving (i) a move from computation-centric to communication-centric design and (ii) the implementation ...

Keyw ords: Chip-area networks, GALS, GSI design, NoC, OCP, SoC, ULSI design, communication abstractions, communication-centric design, interconnects, network-on-chip, on-chip communication, sockets, system-on-chip

12 Two-state, reversible, universal cellular automata in three dimensions



Daniel B. Miller, Edward Fredkin

May 2005 CF '05: Proceedings of the 2nd conference on Computing frontiers

Publisher: ACM

Full text available: pdf(467.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 71, Citation Count: 1

A novel two-state, Reversible Cellular Automata (RCA) is described. This three-dimensional RCA is shown to be capable of universal computation. Additionally, evidence is offered that this RCA is capable of universal construction.

Keyw ords: adiabatic computing, billiard ball model, cellular automata, massively parallel, nanoscale computing, nanotech, reversible computation, reversible computing, reversible logic

13 Islamic star patterns in absolute geometry



Craig S. Kaplan, David H. Salesin

April 2004 ACM Transactions on Graphics (TOG), Volume 23 Issue 2

Publisher: ACM

Full text available: pdf(1.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 208, Citation Count: 3

We present *Najm*, a set of tools built on the axioms of absolute geometry for exploring the design space of Islamic star patterns. Our approach makes use of a novel family of tilings, called "inflation tilings," which are particularly well suited ...

Keyw ords: Non-Euclidean geometry, symmetry, tessellations, tilings

14 Compressed video transmission over digital networks: analysis and design

Qing Tang, Jesse S. Jin

May 2003 VIP '02: Selected papers from the 2002 Pan-Sydney workshop on

Visualisation - Volume 22, Volume 22

Publisher: Australian Computer Society, Inc.

Full text available: pdf(185.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 58, Citation Count: 0

In the past two decades, new technologies in digital video compression have paved the way for video transmission. This is providing an environment for the widespread availability of a wide range of real video networking services. The purpose of this paper ...

Keyw ords: MPEG, interoperability, multiplexing, packetizing, synchronizing, transcoding

and error resilience, video transmission

15 [Introduction to SIGGRAPH and computer graphics](#)



Mike Bailey, Andrew Glassner

August 2007 SIGGRAPH '07: ACM SIGGRAPH 2007 courses

Publisher: ACM

Full text available: [pdf\(17.71 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 398, Citation Count: 0

The SIGGRAPH conference is an exciting event, but it is often an intimidating experience for first-time attendees. There are so many new terms, new concepts, and new products to try to understand. It is like standing in a room with 100 doors and having ...

16 [Postproduction re-illumination of live action using interleaved lighting](#)



Andrew Gardner, Chris Tchou, Andreas Wenger, Paul Debevec, Tim Hawkins

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Posters

Publisher: ACM

Full text available: [pdf\(74.90 KB\)](#) Additional Information: [full citation](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 12, Citation Count: 0

17 [Propositional computability logic I](#)



Georgi Japaridze

April 2006 ACM Transactions on Computational Logic (TOCL), Volume 7 Issue 2

Publisher: ACM

Full text available: [pdf\(209.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 78, Citation Count: 4

In the same sense as classical logic is a formal theory of truth, the recently initiated approach called *computability logic* is a formal theory of computability. It understands (interactive) computational problems as games played by a machine ...

Keywords: Computability logic, computational resources, game semantics, interactive algorithms, linear logic

18 [Computation and performance issues in coliseum: an immersive videoconferencing system](#)



H. Harlyn Baker, Nina Bhatti, Donald Tanguay, Irwin Sobel, Dan Gelb, Michael E. Goss, John MacCormick, Kei Yuasa, W. Bruce Culbertson, Thomas Malzbender

November 2003 MULTIMEDIA '03: Proceedings of the eleventh ACM international conference on Multimedia

Publisher: ACM

Full text available: [pdf\(824.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 47, Citation Count: 5

Coliseum is a multiuser immersive remote teleconferencing system designed to provide collaborative workers the experience of face-to-face meetings from their desktops. Five cameras are attached to each PC display and directed at the participant. From ...

Keywords: telepresence, videoconferencing, view synthesis

19 [Fluid samplers: sampling music keyboards having fluidly continuous action and sound, without being electrophones](#)



Steve Mann, Ryan E. Janzen

September 2007 MULTIMEDIA '07: Proceedings of the 15th international conference on Multimedia

Publisher: ACM

Full text available: pdf(1.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 68, Citation Count: 0

Present-day sampling music keyboards are electronic instruments that fall under the last (5th) category of the Hornbostel Sachs musical instrument classification scheme. Conversely, we first propose an entirely acoustic/mechanical mellotron-like sampling ...

Keywords: fluid sampling, fluid user-interfaces, hydraulophones, interactive art, tangible user interfaces, water-based immersive multimedia

20 [Introduction to computer graphics](#)



Mike Bailey, Andrew Glassner

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: pdf(15.45 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 309, Citation Count: 0

Computer graphics is an exciting field of endeavor, but it is often difficult for a newcomer to get started. This course is that opportunity! The topics being presented will address many areas within computer graphics and treat each from the point of ...

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